



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

☐ Mitigated

Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="48.226002"/>
Longitude (WGS 84):	<input type="text" value="-122.224349"/>
East (NAD 83 HARN):	<input type="text" value="1,219,981.8"/>
North (NAD 83 HARN):	<input type="text" value="1,059,634.6"/>

Waterbody

Stream:	<input type="text" value="Secret Cr"/>
Tributary To:	<input type="text" value="Pilchuck Cr"/>
WRIA:	<input type="text" value="05.0065"/>
River Mile:	<input type="text" value="0.67"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Biological"/>

General Location

Road Name:	<input type="text" value="I-5"/>
Mile Post:	<input type="text" value="211.50"/>
County:	<input type="text" value="Snohomish"/>
WDFW Region:	<input type="text" value="4"/>

Owner

Type:	<input type="text" value="State"/>
Name:	<input type="text" value="Washington State Department of Transportation"/>

PI Species

<input type="checkbox"/> Sockeye	<input type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Sea Run Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input checked="" type="checkbox"/> Chum	<input checked="" type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

Associated Features

<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Dam	<input type="checkbox"/> Natural Barrier	<input type="checkbox"/> Diversion
<input type="checkbox"/> Non-Culvert Xing	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Fishway	

Location/Directions

Take I-5 north from Olympia past Arlington to the Stanwood / Camano Island exit. Turn right (east) to Dahl Rd. Turn right and drive about 1 mile to the end of pavement, and continue into the driveway of the Stilligumish Tribal Nursery to the stream crossing. Fishway is immed. US, at milepost 211.5 on I-5.

Site Comments

NB Culvert. Locally known as Secret Cr. The WSDOT fishway is immediately US of private culvert 05.0065 0.64 with DS log controls.

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID: **990622**
 Latitude: **48.226002** Stream: **Secret Cr** WRIA: **05.0065**
 Longitude: **-122.224349** Tributary To: **Pilchuck Cr** Fish Use Potential: **Yes**

Data Source: Washington Department of Fish and Wildlife

Field Crew: Lautz;Roler

Review Date: 10/29/2019

Culvert Details

ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.1	RND	SPS	2.45	2.45	94.40	0.77	NO	0.00		No	No	2.47	

All dimensions in meters

Channel Description

Toe Width (m): 2.2

Average Width (m): 5.60

Culvert/Stream Width Ratio: 0.44

Plunge Pool

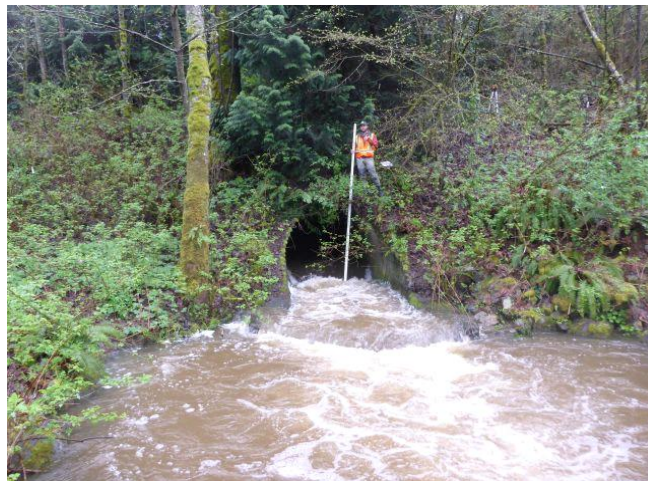
Length (m): 8.00

Max Depth (m): 1.40

OHW Width (m): 6.00

Road

Fill Depth (m): 15.20



Assessment Results

Tidal Influence:		Tidegate Present:	No
Barrier:	Yes	Passability (%):	67
Reason:	WS Drop	Method:	Fishway
Fishway Present:	Yes	Recheck:	

Comments

Original inventory by Barkdull 1996, FW installed in 2000. Existing pipe is damaged with multiple large holes in the bottom that cause flow disconnection during lower flows also leading to a barrier condition.

Potential Habitat Gain

Survey Type:	PS4	Spawning (sq m):	4,674	Length (m):	8,215
Significant Reach:	Yes	Rearing (sq m):	17,264	PI Total	

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Fishway Assessment Report

Site ID: 990622	Stream: Secret Cr	WRIA: 05.0065
Latitude: 48.226002	Trib To: Pilchuck Cr	River Mile: 0.67
Longitude: -122.224349		

General Description

Fishway Type: **BC, SBC** Construction Year: **2000** Attached To: **Culvert**

The 9.5 ft. diameter, 271 ft. long SPS culvert is equipped with 15 expansion-ring weirs and one concrete weir on the outlet apron. Five DS log controls step the streambed up to the culvert outlet. Excessive water surface drop was measured on a baffle.

Weir Pool, Pool Chute, Vertical Slot, and Steep Pass Fishway Components

Number of Pools: **16** Number of Weirs: **16** Weir Type: **Metal**
 Entrance Pool Depth (m): **1** Maximum Water Surface Difference (m): **0.24**

Streambed Elevation Controls

Control Location: **DS** Number of Controls: **5** Control Type: **LC**

Baffles

Culvert ID	Number	Type
1.1		



Assesment Criteria

Inspection Frequency: **Annual**
 Maximum WS Drop (m): **0.24**

Status:

Barrier: **Yes** Reason: **WS Drop** Passability (%): **67**

Comments

Fishway is under NB I-5. The stream is day lighted in the median and goes under SB I-5 in a low-gradient, passable box culvert with no baffles. The existing

Potential Habitat Gain

Survey Type: **PS4** Spawning (sq m): **4,674** Length (m): **8,215**
 Significant Reach: **Yes** Rearing (sq m): **17,264** **PI Total**

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WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: **990622**

Latitude: **48.226002** Longitude: **-122.224349** WRIA: **05.0065**

Stream: **Secret Cr** Tributary To: **Pilchuck Cr** PI Total:

Survey Type

Spreadsheet File(s):

05.0065_0.64.xlsx, 05.0065_0.64_2.xlsx, 05.0065_0.64a.xlsx, 05.0065_0.64b.xlsx, 05.0065_0.64c.xlsx

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

Brett Barkdull verified that CH, CO, SH, and sea-run CT have access to I-5; he has observed adult CO & SH just below I-5 culvert (Dec 1999) DS barriers include sites 05.0065_0.90 and 991975; they will be fixed by Detrick in 2000.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Habitat areas include tributaries. Landowner at 4th Ave NW says the stream dries up in August (Barber Sept, 1997).

Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous
☐ Resident Only
☐ Unknown

Gain Direction (Resident Only):

Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☒ Searun Cutthroat

☐ Pink

☒ Coho

☒ Resident Trout

☒ Chum

☒ Steelhead

☐ Bull Trout

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WDFW Fish Passage and Diversion Screening Inventory Database
Barrier Repair Report

Site ID:

Repair Type:

Repair Year:

Compliance Check: Date: By: Barrier Fixed:

Comments:

Before

After



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WDFW Fish Passage and Diversion Screening Inventory Database
Image Report - Active

Site ID: **990622**

Latitude: **48.226002**

Longitude: **-122.224349**

Stream: **Secret Cr**

Tributary To: **Pilchuck Cr**

WRIA: **05.0065**

Fish Use Potential: **Yes**

Associated Features

☒ Culvert

☐ Dam

☐ Natural Barrier

☐ Diversion

☐ Non-Culvert Xing

☐ Other

☒ Fishway



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